

- Fun fact- 1 in 400 babies are born with extra digits in US
(higher frequency in Amish community)
- **Dominance-** When a dominant allele masks the expression of the recessive alleles in individuals with a heterozygous phenotype
 - Only applies with complete dominance inheritance pattern
 - Do NOT really discuss dominant alleles when discussing either incomplete dominance or codominance

Principles / Laws in Genetics:

A) Law of Dominance

- **Law of Dominance-** The law of the dominant allele to mask the expression of the recessive allele in the heterozygous individuals
 - The phenotype of the individual will be the dominant phenotype
- Relevant to:
 - Meiosis only
 - Both monohybrid and dihybrid crosses
 - Complete dominance only

B) Law of Segregation

- **Law of Segregation-** Separation of homologous chromosomes
 - Homologous chromosomes refer to those similar chromosomes with one from each parent
 - They separate during anaphase of meiosis 1 because meiosis eventually gives rise to haploid egg and sperm